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APR 34 1967

We claim

1. A process for vulcanizing rubber or latex by adding a mixture
5 M comprising a component a) made from
 - a1) from 20 to 96% by weight of sulfur,
 - a2) from 4 to 80% by weight of a complexer,
10 and, where appropriate, comprising other additives b),

to the rubber or latex and then carrying out the
vulcanization, which comprises using a component a) whose
15 average primary particle size is in the range from 0.05 to
20 μm .
2. A process as claimed in claim 1, wherein the complexer a2)
comprises a polymeric complexer compound.
- 20 3. A process as claimed in claim 1 or 2, wherein the polymeric
complexer a2) is a ligninsulfonate, a β -naphthalenesulfonic
acid-formaldehyde condensate, or a mixture of ligninsulfonate
and β -naphthalenesulfonic acid-formaldehyde condensate.
- 25 4. A process as claimed in any of claims 1 to 3, wherein the
polymeric complexer a2) is an alkali metal ligninsulfonate
and/or an alkaline earth metal ligninsulfonate.
- 30 5. A process as claimed in any of claims 1 to 4, wherein the
mixture M is free-flowing with a median particle size of from
50 μm to 4 mm.
6. A process as claimed in any of claims 1 to 5, wherein the
35 mixture M is a liquid dispersion.
7. The use of a mixture M - as defined in any of claims 1 to 6 -
as agent for vulcanizing rubber or latex.
- 40 8. A vulcanized rubber or latex obtainable by the process as
claimed in any of claims 1 to 6.